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METHOD FOR MANUFACTURING AN EMBOSSED SHEET

Inventors:	Akira Takayama 1-231-10 Migihigashisaka, Shimizu-shi, Shizuoka-ken Mikiiku Nakanishi 1461-47 Temma, Fuji-shi, Shizuoka-ken
Applicant:	000129404 Suzuki [illegible, possibly Shoes] K.K. 729 Miyakazo, Shimizu-shi, Shizuoka-ken
Agent:	[illegible], patent attorney

[There are no amendments to this patent.]

* [Due to poor quality of the foreign document, numbers represent best guesses.]

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Claims

1. A method for manufacturing an embossed sheet characterized by the following facts: a liquid feed material made of polyurethane elastomer or a heat setting resin or UV curable resin mainly made of said polyurethane elastomer is poured into a die with recession portions in a prescribed shape formed as a pattern on it; after a squeezing treatment, a base sheet is covered on this, and the embossed pattern is bonded on the base sheet under heating and pressing to form an embossed sheet; in this manufacturing method, when said liquid feed material is poured into the die, air mixed in the liquid feed material is exhausted from the recession portions on said die.

2. The method for manufacturing an embossed sheet described in Claim 1 characterized by the fact that for said recession portions, at least the bottom portion is formed from a rough-surface feed material so that the molding formed using it has a mat surface.

3. The method for manufacturing an embossed sheet described in Claim 1 or 2 characterized by the following facts: said die is prepared by applying an air permeable sheet on the lower surface of a perforated plate, which has holes formed in a prescribed shape on it beforehand, to form recession portions, followed by supporting this on a base; when said liquid feed material is poured into the die, air mixed in it reaches the air-permeable sheet on the lower surface of the holes formed on the perforated plate and is exhausted from the recession portions.

4. The method for manufacturing an embossed sheet described in Claim 1 or 2 characterized by the following facts: said die is prepared by processing a flat air-permeable sheet into an embossed shape, that is, to a 3-D shape, and forming recession portions on the air-permeable sheet directly, followed by supporting it on a base; when said liquid feed material is poured into the die, air mixed in it is exhausted from the recession portions through the side peripheral portion and bottom surface of the recession portions.

5. The method for manufacturing an embossed sheet described in Claim 1 or 2 characterized by the fact that said die is made of an air-permeable intaglio as is, or is prepared by supporting an air-permeable intaglio on a base; when said liquid feed material is poured into the die, air mixed in it is exhausted from the recession portions through the side peripheral portion and bottom surface of the recession portions.

6. The method for manufacturing an embossed sheet described in Claim 5 characterized by the fact that said intaglio is prepared from a feed material made of a sintered air-permeable ceramic.

7. The method for manufacturing an embossed sheet described in Claim 3 or 4 characterized by the fact that said air-permeable sheet is formed from feed material made of a nonwoven fabric.

8. The method for manufacturing an embossed sheet described in Claim 1, 2, 3, 4, 5, 6 or 7 characterized by the fact that before pouring said liquid feed material into said recession portions, a mold release agent is coated beforehand, or the recession portions are made of a mold release material.

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